NSF Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	NSF, Blocking Peptide
Full Product Name	NSF Blocking Peptide
Product Gene Name	NSF blocking peptide
Product Synonym Names	Vesicle-fusing ATPase; N-ethylmaleimide-sensitive fusion protein; NEM-sensitive fusion protein; Vesicular-fusion protein NSF
Host	Synthetic
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	NSF peptide (MBS824149) is used for blocking the activity of NSF antibody (MBS822097)
Molecular Weight	71,584 Da
OMIM	601633
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for NSF blocking peptide	Blocking (BL)
Application Notes for NSF blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for NSF blocking peptide	MBS824149 is a blocking peptide targeting NSF. Reactive in Human, Mouse, Rat. Host: Synthetic. The peptide is used to block Anti-NSF Antibody reactivity.
Other Notes	Small volumes of NSF blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NSF. It may not necessarily be applicable to this product.

NCBI GI #	156564401
NCBI GeneID	4905
NCBI Accession #	NP_006169.2
UniProt Primary Accession #	P46459
UniProt Secondary Accession #	Q8N6D7; Q9UKZ2; A8K2D9; B4DFA2
UniProt Related Accession #	P46459
GenBank Nucleotide #	NM_006178.3
NCBI Official Full Name	vesicle-fusing ATPase

NCBI Official Synonym Full Names	N-ethylmaleimide-sensitive factor
NCBI Official Symbol	NSF
NCBI Official Synonym Symbols	SKD2
UniProt Protein Name	Vesicle-fusing ATPase
UniProt Synonym Protein Names	N-ethylmaleimide-sensitive fusion protein; NEM-sensitive fusion protein; Vesicular-fusion protein NSF
Protein Family	NSFL1 cofactor
UniProt Gene Name	NSF
UniProt Synonym Gene Names	NEM-sensitive fusion protein
UniProt Entry Name	NSF_HUMAN
NCBI Protein Information	vesicle-fusing ATPase; NEM-sensitive fusion protein; vesicular-fusion protein NSF; N-ethylmaleimide-sensitive fusion protein; N-ethylmaleimide-sensitive factor-like protein
UniProt Comments for NSF	NSF: required for intracellular membrane fusion and vesicle-mediated transport. Catalyzes the fusion of transport vesicles within the Golgi cisternae. Is also required for transport from the endoplasmic reticulum to the Golgi stack. Seem to function as a fusion protein required for the delivery of cargo proteins to all compartments of the Golgi stack independent of vesicle origin. Functions as a SNAP receptor (SNARE) chaperone which binds, through soluble NSF attachment proteins (SNAPs), to SNARE complexes and utilizes the energy of ATP hydrolysis to disassemble them thus facilitating SNARE recycling. While this is a major function of NSF, it does seem to interact with other proteins, such as the AMPA receptor subunit, GluR2, and beta2-AR and is thought to affect their trafficking patterns. Protein type: Adaptor/scaffold; Vesicle; EC 3.6.4.6; Autophagy; Protease Chromosomal Location of Human Ortholog: 17q21 Cellular Component: Golgi stack; lysosomal membrane; cytoplasm; postsynaptic density; plasma membrane; dendritic shaft; cytosol Molecular Function: protein binding; metal ion binding; ATPase activity; syntaxin-1 binding; protein complex binding; ATPase activity, coupled; protein kinase binding; Rab GTPase binding; ATP binding; PDZ domain binding Biological Process: vesicle-mediated transport; regulation of exocytosis; synaptic transmission; intra-Golgi vesicle-mediated transport; exocytosis; metabolic process; Golgi to plasma membrane protein transport; Golgi vesicle docking; positive regulation of receptor recycling; potassium ion transport; plasma membrane fusion
Research Articles on NSF	**1.** a processive helicase-like mechanism for NSF in which approximately 1 residue is unwound for every hydrolyzed ATP molecule.
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